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IDDQ testing: A review
JM Soden, CF Hawkins, RK Gulati, W Mao - Journal of Electronic Testing, 1992 - Springer
... VDD signatures, **analysis** of the relationship between IDD a **test** vectors and the logic structure of **...** It has been effective for several **fault** types on 40,000 tran- sistor sequential circuits and **...** CMOS IC **transient** current, (2) the impedance loading of the tester, (3) current leakages into **...**
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Artificial neural networks and their applications to **power** systems--a bibliographical …
VSS Vankayala, ND Rao - Electric **power** systems research, 1993 - Elsevier
... on a singlemachine system for a symmetri cal **fault** on any **point** along the **...** the plant thermodynamics; emulation of core reload calculations; monitoring of plant parameters; **analysis** of plant **...** 14 H. Kanoh, M. Kaneta and K. Kanemaru, Study on **fault location** system for transmission **...**
Cited by 43 - Related articles - All 2 versions

[PDF] Screening digital relay data to detect **power** network **fault** response … psu.
DW Kosy, VS Grinbery, MW Siegel - PROCEEDINGS-SPIE THE …, 1993 - Citeseer
... Implication rules derive intermediate results such as percentage voltage drops and phase angle differences. Events are classified by **location** (internal vs external to line, near vs far from relay under **analysis**) and affected phases. **... Fault** response **analysis** is an **...**
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[PDF] **ABNORMALITY** DIAGNOSIS OF CIS USING ADAPTIVE RESONANCE … bu.e
HOGIH TANAKA, Y AKIMOTO, I … - Neural Networks Theory, …, 1996 - techlab.bu.edu
... Such a diagnostic system hiis liti.le abilities of noise tolerance, **location** and cause of abnorinality **...** For the convenience after **analysis** of the exper- iment, raw signals from the sensor were also **...** 3] H.Tanaka,et al., "Design and Evaluation of Neural Network for **Fault** Diagnosis", Proc **...**
Related articles - View as HTML - All 3 versions

A **Test** Methodology for High Performance MCMs
TM Storey, B McWilliam - Journal of Electronic Testing, 1997 - Springer
... suspect, but also enable other operational chains to be used to identify the precise **location**. **...** This **analysis**, dubbed Testability **Analysis** for Random **Patterns** (TARP) [11], has a variety of capa **...** deterministic stuck **fault** cover- age, 90–95% for flat pseudo random stuck **fault** and 80 **...**
Cited by 3 - Related articles - BL Direct - All 4 versions

[BOOK] IDDQ testing of VLSI circuits
RK Gulati, CF Hawkins - 1993 - books.google.com
... In 1983 Toshio Maruyama designed a faster **power** supply current measurement circuit for **test** equipment **...** VDD signatures, **analysis** of the relationship between IDDQ **test** vectors and the logic structure of **...** Physical shorts and their related **fault** models bring to mind an image of a **...**
Cited by 48 - Related articles

[PDF] Development of distributed problem solving systems for dynamic … psu.
GP Lekkas, NM Avouris, GK … - IEEE transactions on …, 1995 - Citeseer
... Analysis The **analysis** framework used in our **test**-case is the KADS four-layer model of expertise

[11], The key idea of the **...** This constitutes the **Fault** Typology Model (FTM **...** The **location** of the error cannot be established with certainty from the messages received in the control room **...**
Cited by 31 - Related articles - BL Direct - All 3 versions

Symbolic reasoning and quantitative **analysis** for **fault** detection and isolation in …
Z Fathi, WF Ramirez, AP Tavares, G Gilliland - Engineering Applications of …, 1993 - Elsevier
... 2) heating of feedwater, (3) provision of feedwater storage, and (4) **location** so as to **...** for maintaining and upgrading the knowledge-base.52 ZOHREH FATHI et al.: **FAULT** DETECTION AND **...** Estimation-based methods that resort to fundamental **analysis** provide the rationale for a **...**
Cited by 1 - BL Direct

Use of Fuzzy Cause-Effect Digraph for Resolution **Fault** Diagnosis for Process …
RF Shih, LS Lee - Industrial & Engineering Chemistry Research, 1995 - pubs.acs.org
... 1994) might be (1) process modeling, parameter estimation; (2) cluster **analysis**, statistical **analysis**; (3) artificial **...** the symbols ek- and ek+ express the initial **point** vj and terminal **point** vi of **...** to eliminate these difficulties, we will first categorize six types of **fault** propagation **patterns ...**
Cited by 14 - Related articles - BL Direct - All 6 versions

[PDF] Probabilistic Modeling for **Fault** Classification of Plasma Equipment berk
AM Ison - 1999 - bcam.berkeley.edu
... 154 Figure 6-14. **Location** of **pattern** defined with respect to onset of (bottom match) **power** ..... **...** 1.2.2. Data **Analysis** and Decision Making **...** The **fault** detection mechanism finds **abnormalities** in the continuous state, **...**
Cited by 1 - Related articles - View as HTML

Practical problems in the statistical **analysis** of reliability data rpi.e
JI Ansell, MJ Phillips - Applied Statistics, 1989 - jstor.org
... The **transient** behaviour of the SRP has been considered by Blumenthal et al. (1973). **...** Typically the censored data must be singly censored if published tables of critical **points** are to be used. **...** Again the concern in this **analysis** is with the first failure in the cycle **test** time interval. **...**
Cited by 42 - Related articles - All 2 versions

[PDF] An integrated model-based approach for real-time on-line diagnosis of … odu.
FD McKenzie, AJ Gonzalez, R Morris - Engineering Applications of …, 1998 - ece.odu.edu
... quantitative simulation for the purpose of system **analysis**. If used, within the conventional device- **...** Table 1 shows the IPC conflict-oriented algorithm results for single **point ...** The number of the **fault** type in the left most column of the tables are associated with the **fault location ...**
Cited by 6 - Related articles - View as HTML - BL Direct - All 2 versions

[PDF] Modeling human eye behavior during mammographic scanning: Preliminary … ic.ac
KP White, TL Hutson, TE … - IEEE Transactions on …, 1997 - wwwhomes.doc.ic.ac.uk
... Defining the **location** as a function of screen coordinates and the **location** at observation number (or time) **...** At a particular **point** in time, the system is found to be in exactly one of **...** implications for the mammogram representation are that the states defined by cluster **analysis** are non **...**
Cited by 12 - Related articles - View as HTML - BL Direct - All 6 versions

A prototype neural network to perform early warning in nuclear **power** plant
JM Renders, A Goosens, F De Viron, M De … - Fuzzy Sets and …, 1995 - Elsevier
... The parameters influencing these scenarios are the **location** and the importance of the break affecting **...** question of choosing an adequate threshold remains open, even if the **analysis** of the **...** in the conditions of our study (simulated data, re stricted number of **fault** types considered **...**
Cited by 3 - Related articles - All 5 versions

[PDF] Application of Statistical **Fault** Detection to Civil Engineering Systems mit.
C Stamoulis - 1993 - dspace.mit.edu

... signals propagate along the system or one of its components, to the monitoring **location** where the ... In some cases, the functions themselves may also serve in **fault** diagnosis. ... to obtain the impulse response function and/or the transfer function is cross-correlation **analysis** in the ...
Related articles

Proceedings of a seminar on the potential for LMFBR boiling detection by acoustic/ ...
WM Carey, RW Albrecht - Seminar on the potential for LMFBR boiling ..., 1976 - osti.gov
... by Hans K. Fauske Reactor **Analysis** and Safety Division Argonne National Laboratory I. INTRODUCTION ... second of these **points** and include whole-core faults and local faults (first viewgraph). ... risk to public health if a **fault** cannot propagate from one subassembly ...
Related articles - View as HTML

[PDF] A review of on-line condition monitoring techniques for three-phase squirrel- ... spe
WT Thomson - ... on Diagnostics for Electrical Machines, **Power** ..., 1999 - spectraquest.com
... causes on stator windings (covering all voltages) as in [7] and only summary **points** are presented ... 6. Ideally, a prediction of the fundamental cause/s of the problem/**fault** should be provided via ... The accurate on-line prediction of slip, from only a current **analysis**, to cope with such ...
Cited by 49 - Related articles - All 3 versions

Chapter VIII Infrared Techniques for Electric Utilities
TL HURLEY - Infrared methodology and technology, 1994 - books.google.com
... Mixing of visible and IR can greatly assist in increased definition of the **fault** locations ... An oil sample **analysis** is recommended as the next course of action ... At the **point** of excessive resistance, there is a greater than 50% chance of existent physical damage within the elbow on the ...
Cited by 2 - Related articles - All 2 versions

An Investigation of Gear Mesh Failure Prediction Techniques
JJ Zakrajsek - 1989 - Storming Media
... detect a variety of failures, whereas FM4 is more sensitive to a single tooth **fault**, such as ... is averaged in the time domain with each record start- ing at the same **point** in a ... The FM4 **analysis** method is comprised of the standard deviation and kurtosis of the difference signal along ...
Cited by 22 - Related articles - All 2 versions

[BOOK] ... monitoring via vibratory signature **analysis** utilising data collected by ... imp
MP Ribeiro - 1999 - imperial.ac.uk
... The research described in this thesis is focused on vibration monitoring in machinery whose **location** makes it difficult to gain direct access. ... that we intend to analyse for **fault** detection purposes. ... non-stationary data parameters, time-averaging **analysis** procedures can produce ...
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[PDF] S/390 G5 CMOS microprocessor diagnostics psu.
P Song, F Motika, DR Knebel, RF Rizzolo, MP ... - IBM Journal of Research ..., 1999 - Citeseer
... that do not conform to the classical or conventional stuck-at or transition **fault** models. ... **test** concept used in the G5 design is based on on-board random **pattern** generation and ... tester-based approaches are described, it should be noted that several global **test** and environmental ...
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[PDF] Logical **fault analysis** of **fault** secure systems using VHDL nlc-l
LJM Coppens - 1997 - nlc-bnc.ca
... Technology Anaiysis Defect Mapping File Exarnple Input **Pattern** Excitation File Exarnple ... incorporated into the design or as provided by extemal **test** hardware. Incorporating a self-check- ... the **fault** security of a system since typically their **analysis** is based on a list of logical faults. ...
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[PDF] Screening digital relay data to detect **power** network **fault** response ... psu.
DW Kosy, VS Grinbery, MW Siegel - PROCEEDINGS-SPIE THE ..., 1993 - Citeseer
... not yet look at the shape of **transient** waveforms and hence does not **test** for breaker ... **Fault** response **analysis** is an interpretation task in which the actual response of equipment to ... of the stimuli, a record of the actual response, a computation of the response **pattern** expected or ...
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Olympus end of life **anomaly**—a perseid meteoroid impact event?
R Douglas Caswell, N McBride, A Taylor - International Journal of Impact ..., 1995 - Elsevier
... A design **fault** resulted in a sticking scanning mirror under some direct solar conditions ... AIT (Assembly Integration **Test**) **test** lines allow an electrical path to the gyros ... short term telemetry interruptions were experienced which resulted from the spacecraft antenna **pattern** fringing in ...
Cited by 31 - Related articles - BL Direct - All 7 versions

Autonomous vacuum cleaners must be bayesian
R Brittain, B D'Ambrosio, D Hall - ... of AAAI 1993 Fall Symposium Series: ..., 1993 - aaai.org
... A more extensive discussion of the use of this **test** for **fault** detection can be found in[3]. The **fault** detection schemes we have ... IEEE Transactions on **Pattern Analysis** and Machine Intelligence, 15(2), March 1993. [12] J. Pearl. Probabilistic Reasoning in Intelligent Systems. ...
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[PDF] **ABNORMALITY** DIAGNOSIS OF CIS USING ADAPTIVE RESONANCE ... bu.e
HOGIH TANAKA, Y AKIMOTO, I ... - Neural Networks Theory, ..., 1996 - techlab.bu.edu
... length of a particle: S=28 nim, Y=40 mm 0 Abnormal conditions **test**.ed: 1 ... and SGrossberg, "ART3: Hierar- chical Search Using Chemical Transmitters in Self- Organizing **Pattern** Recognition Architectures ... 101 H.Ogi et al., "**Fault** Diagnosis System for GIS using an Artificial Neural ...
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[PDF] An integrated model-based approach for real-time on-line diagnosis of ... odu.
FD McKenzie, AJ Gonzalez, R Morris - Engineering Applications of ..., 1998 - ece.odu.edu
... knowledge base involved would not grow based on the number of **fault patterns** of a system but

rather **...** Our approach does not use such a function. It does use a Conflict **Test** (CT) **...** and **fault** isolation strategies provided by the conflict-oriented reasoner, the result is an integrated **...**
Cited by 6 - Related articles - View as HTML - BL Direct - All 2 versions

Chapter VIII Infrared Techniques for Electric Utilities
TL HURLEY - Infrared methodology and technology, 1994 - books.google.com
... These **test** results indicated a substantial need for IR testing within a pre- dictive maintenance program. **...** of visible and IR can greatly assist in increased definition of the **fault** locations. **...** a spiral design, the heat reaction of the overloaded strands assume the same thermal **pattern**. **...**
Cited by 2 - Related articles - All 2 versions

[PDF] Automated Downlink **Analysis** for the Deep Space Network nasa
D Watola, JB Hampshire II - Telecommunications and Data …, 1996 - tda.jpl.nasa.gov
... Furthermore, the two specific outputs can change for a given training **pattern** as the network adapts **...** learning as the basis for the model **analysis** at the heart of discriminative **fault** diag- nosis **...** η is only meaningful when the classifier forms a robust model of the system; **analysis** of an **...**
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Practical problems in the statistical **analysis** of reliability data rpi.e
JI Ansell, MJ Phillips - Applied Statistics, 1989 - jstor.org
... give protection. Again the concern in this **analysis** is with the first failure in the cycle **test** time interval. If a **...** system. Such a system can fail more than once and the **pattern** of times between successive failures is important. The **...**
Cited by 42 - Related articles - All 2 versions

[BOOK] Reliable computer systems: design and evaluation
DP Siewiorek, RS Swarz - 1998 - books.google.com
... Common techniques for matching empirical data to **fault** distributions, such as the maximum likelihood estimator, linear regression, and the chi-square goodness-of-fit **test**, are discussed. **...** in electronic equipment, and the life-cycle testing and data **analysis** approaches. **...**
Cited by 596 - Related articles - All 6 versions

[PDF] Probabilistic Modeling for **Fault** Classification of Plasma Equipment berk
AM Ison - 1999 - bcam.berkeley.edu
... 141 Table 6-23. Box m **Test** results: Within two machine types, within the same **fault** group (gas line grounding problems **...** 158 Table 6-32. Average probability of linking a **pattern** to a **fault** category **...** In order to confirm the hypothesis that a **fault** has occurred and to identify an assign **...**
Cited by 1 - Related articles - View as HTML

[PDF] Distributed Control for Paralleled PWM Inverters in the DC Zonal Distribution … nps.
ML Marinac - 1999 - edocs.nps.edu
... 14. SUBJECT TERMS DC-to-AC PWM Inverter, Synchronous Reference Frame **Analysis**, **Power** Line Communication, Droop **...** and inductor in phase 'b', through Switch B to the common **point** P. Thus **...** in the design process, Matlab's system design tools were used to **test** the open **...**
All 5 versions

[BOOK] Recent advances in computer-aided control systems engineering ethz
M Jamshidi, CJ Herget - 1992 - inf.ethz.ch
... Control theory was developed since it was recognized that there exist **patterns** be- tween **...** example: it may be necessary for the higher-level controllers to **test** the lower **...** i Crisp * Knowledge Selection • Data Fusion Heuristics Reasoning Task Planning **Fault Analysis** h Identification **...**
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[BOOK] Artificial-intelligence-based electrical machines and drives: application of …
P Vas - 1999 - books.google.com

... exposition, strategic and market related issues are touched on at a number of **points**; and other ... estimators, control 278 9.1 General 278 9.2 AI-based steady-state and **transient analysis** of dc machines 278 9.2.1 Conventional **analysis** 278 9.2.2 ANN-based **analysis** 279 9.2 ...
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Synchronous Motors
J Kirtley, N Ghai - Electric motor handbook, 1998 - books.google.com
... **points** d and e at minimum speed, accelerates again, and finally synchronizes at **point**/. ... motors: locked-rotor **current**; temperature rise; locked-rotor torque; overspeed; harmonic **analysis** and TIF ... factory and whose windings have not since been disturbed, the **test** voltages should ...
Related articles - All 2 versions

[BOOK] Microprocessor application to medical monitoring
pebl
PJ Carlson - 1981 - pebbleripple.com
... These beat-to-beat temporal **patterns** have been modelled by a low order Markov process [67]. ... of ST depression can be found [38], and it is also useful for arrhythmia **analysis**. ... to choose rather the site giving maximum ST depression during a preliminary exercise **test**, but this ...
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Monitoring and alarm interpretation in industrial environments
aber
S Cauvin, MO Cordier - AI Communications, 1998 - IOS Press
... A primary **fault** is a change in the evolution of a variable which is di- rectly due to a ... performed, evaluating the con- sistency between the arcs and the state of the variables; the **test** is more ... set of observable events, failures) which can be used in on-line recognition of **patterns** [25]. ...
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Information for Readers and Abbreviations Used in IEEE **Power** Engineering ...
B Effects - IEEE **Power** Engineering Review, 1991 - ieeexplore.ieee.org
... The leads are at the 200 gauss **point** in both designs. ... of high Tc materials for operation at 77 K. Other suggestions for materials research included use of the large volume of magnetic field for large instrument **test**- ing, imaging of ... Engineering Economic **Analysis**: Overview and ...
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GENERAL SAFETY-RELATED DESIGN CRITERIA
S Serra - Safety design criteria for industrial plants, 1989 - books.google.com
... situations within industrial plants shall be identified on the basis of the accident configuration **pattern**. ... by the **test** itself, and immediate repair after failure of the equipment under **test**. ... systems and structures, and is therefore more complex than the classical **fault** tree **analysis**. ...
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[PDF] Defect classes-an overdue paradigm for CMOS IC testing psu.
CF Hawkins, JM Soden, AW Righter, FJ ... - International **Test** ..., 1994 - Citeseer
... These production and application results are consistent with failure **analysis** studies that show most CMOS IC dlefects are **...** including the following types of tests: at-speed functional, delay **fault**, random **pattern**, SAF, V **...** The SAF **test** provides Boolean controllability and observability **...**
Cited by 167 - Related articles - View as HTML - All 6 versions

Transient power supply current monitoring—a new **test** method for CMOS VLSI ...
ST Su, RZ Makki, T Nagle - Journal of Electronic Testing, 1995 - Springer
... open **fault** and can, in many cases, be detected by the saf **test** using a "two vectors" **test pattern**. **...** do not create any path from PWR to GND and, hence, the Iz)oo **test** may fail to **...** The PSCS **analysis** method utilizes statistical models, such as the "auto-regressive model" [16] or the **...**
Cited by 54 - Related articles - BL Direct - All 2 versions

IDDQ testing: A review
JM Soden, CF Hawkins, RK Gulati, W Mao - Journal of Electronic Testing, 1992 - Springer
... VDD signatures, **analysis** of the relationship between IDD a **test** vectors and the logic **...** spe- cifically for IDD a testing; they comprise Supplemental IDD a **test pattern** sets. **...** As more effective Supplemental IDD Q **test** generation approaches for sequential circuits are developed **...**
Cited by 143 - Related articles

[PDF] Digital integrated circuit testing using **transient** signal **analysis** psu.
J Plusquellic, D Chiarulli, S Levitan - International **Test** Conference, 1996 - Citeseer
... Our technique, **Transient** Signal **Analysis** (TSA), with its advantages in defect detection and process insensi- tivity, is proposed as an addition **...** state and the circuit operates logically correctly under this **test** sequence. **...** The same type of **pattern** exists for POs 329, 370, 421 and 430 **...**
Cited by 44 - Related articles - View as HTML - BL Direct - All 12 versions

[PDF] Analog **fault** diagnosis based on ramping **power supply current** signature ... tam
SAS Somayajula, E Sánchez-Sinencio, J ... - IEEE Transactions on ..., 1996 - amsc.tamu.edu
... A brief description of the Kohonen network and its **pattern** classification capabilities are given in the **...** that performs the derivative of each response and forms a set of optimal **test points** at which **...** The data is obtained by performing a **transient analysis** on the circuit swept from 1 to **...**
Cited by 33 - Related articles - BL Direct - All 3 versions

Differential **fault analysis** of secret key cryptosystems psu.
E Biham, A Shamir - Lecture Notes in Computer Science, 1997 - Springer
... At this **point** we should note that small differences in the **fault** models might crucially affect the capabilities and the complexities of the attacks. **...** If the **fault ...** To make the **analysis** simpler, we assume that we can apply a low level phys- ical stress to the tamper-resistant device when it **...**
Cited by 453 - Related articles - BL Direct - All 23 versions

Automated **test pattern** generation for analog integrated circuits
W Verhaegen, G Van der Plas, ... - ... . IEEE VLSI **Test** ..., 1997 - doi.ieeecomputersociety.org
... aatpg is the **test pattern** generator which is equipped with an interface for communication with

the **...** The disadvantage of this technique is the large CPU time : the **test** generation for **...** For larger circuits or tests with more faults this approach using **transient analysis** really requires **...**
Cited by 21 - Related articles - All 5 versions

Detection and **location** of faults and defects using digital signal processing
C Thibeault - VLSI **Test** Symposium, 1995 - doi.ieeecomputersociety.org
... 12] developed a **fault** detection technique using **pattern** recognition methods. **...** The work presented in [12] is also a good indication that frequency spectrum **analysis** can be useful for **...** In [14], a sinusoidal stimulus plus some DC offset was applied in order to **test** memory ICs, while **...**
Cited by 36 - Related articles - All 5 versions

Characterization of CMOS Defects using **Transient** Signal **Analysis** psu.
JF Plusquellic, DM Chiarulli, SP ... - ... on Defect and **Fault** ..., 1998 - doi.ieeecomputersociety.org
... We prepare the waveforms shown in Figure 6 for **analysis** by creating Signature Waveforms or **...** In particular: • Opg: We noted a delayed rising transition in the Active **test** pad waveform **...** the patterns of other defect-free inverter SWs would be baseline (no **pattern**) or characterized **...**
Cited by 12 - Related articles - All 15 versions

[PDF] Digital IC device testing by **transient** signal **analysis** (TSA) pitt.
JF Plusquellic, DM Chiarulli, SP Levitan - Electronics Letters, 1995 - kona.ee.pitt.edu
... (TSA) JF Plusquellic, DMChiarulli and SP Levitan Indexing terms: **Transient** response, **Transient** signal **analysis**, Digital device **test**- ing **...** These variations can be analyzed using **pattern** recognition techniques and neural processing is pro- **...** Neural Net Diagnostics for VLSI **Test**. **...**
Cited by 10 - Related articles - View as HTML - BL Direct - All 5 versions

[PDF] ... service restoration using the artificial neural network approach and **pattern** ... ntu.
YY Hsu, HM Huang - IEE Proceedings. Generation, ..., 1995 - ntur.lib.ntu.edu.tw
... operation Consider again a **fault** at **point** A (section 1) on distribu- tion feeder SM64. **...** In the example, the load **pattern** used as the **test pattern** does not belong to the training set for the ANN method and the **pattern** recognition approach. **...**
Cited by 22 - Related articles - View as HTML - BL Direct - All 5 versions

Fault modeling and simulation using VHDL-AMS soto
AJ Perkins, M Zwolinski, CD Chalk, BR ... - Analog Integrated Circuits ..., 1998 - Springer
... the faulty copy differs from that of the original the **fault** is detectable using that **test pattern**. **...** Even if the **fault** model is imprecise, **test** patterns designed to detect such faults will sometimes **...** the output resistance (AC **analysis**) * the voltage gain pole (AC & pole-zero **analysis**) The two **...**
Cited by 21 - Related articles - BL Direct - All 6 versions

[PDF] S/390 G5 CMOS microprocessor diagnostics psu.
P Song, F Motika, DR Knebel, RF Rizzolo, MP ... - IBM Journal of Research ..., 1999 - Citeseer
... LBIST extraction phase The goal of this phase is to identify which **pattern** in the LBIST **test** sequence fails **...** Since the nature of LBIST signature **analysis** is to compress the response data for many patterns into a MISR signature, the first step in the diagnostic process is to **...**
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... **analysis** for **fault** detection of mixed-signal ICs based on dynamic **power-supply** ...
J Argüelles, S Bracho - Journal of Electronic Testing, 1996 - Springer
... the **fault** detection process, are **supply current** waveform digitalization techniques [13], **pattern** recog- nition **...** that leads to unac- ceptable performance degradation in the circuit under **test** (CUT). **...** to enlarge the **transient** time in order to simplify the external signal **analysis**; and then **...**
Cited by 7 - Related articles - BL Direct - All 2 versions

Built-in **current** sensor for IDDQ testing in deep submicron CMOS
T Calin, L Anghel, M Nicolaidis - ... IEEE VLSI **Test** ..., 1999 - doi.ieeecomputersociety.org

... and (A=I, B=I, Cin=O) -> (A=O, B=I, Cin=I). The first **pattern** induces a ... Iuoo **fault** grading can thus be performed, this allowing fast and reliable failure **analysis**; - to offer to ... the circuit operation, allows a high flexibility on selecting faulty **current** levels during the **test** application, and ...
Cited by 7 - Related articles - All 9 versions

i~ D~ D Pulse Response Testing Applied to Complex CMOS ICs
J Beasley, S Pour-Mozafari, D ... - ... **TEST** ..., 1997 - doi.ieeecomputersociety.org
... of the **transient current** frequency spectrum data was used to perform the **pattern** classification for ... In other words, in a production **test** environment, it is possible that only a limited ... Software neural network **analysis** code for the neural network was provided by MATLAB and its ...
Cited by 24 - Related articles - BL Direct - All 4 versions

[PDF] **Test** Stimulus Generation for Steady-State **Analysis** of Analogue and Mixed- ... soto
CD Chalk, M Zwolinski, BR Wilkins - ... Mixed-signal **Test** workshop, 1997 - ecs.soton.ac.uk
... The **fault** coverage of the tests derived from AC sensitivity **analysis** should be compared to that of an arbitrary **test pattern** generation scheme ... **fault** coverage for each stimulus; the amplitude of the sinusoid was again 0.25 V. It is clear that our proposed **test** generation scheme ...
Cited by 3 - Related articles - View as HTML - All 4 versions

Quiescent **current analysis** and experimentation of defective CMOS circuits
JA Segura, VH Champac, R Rodriguez- ... - Journal of Electronic ..., 1992 - Springer
... The bridging defects considered are those affecting the nodes of the middle inverter as shown in Figure 1. To **test** the defective ... To detect this defect an input **pattern** must drive node V 2 to the logic low value, as this node is assumed to ... 2.3.2. IDD Q **Analysis** of a Defective Circuit. ...
Cited by 33 - Related articles - All 2 versions

[PDF] Intrinsic leakage in low-**power** deep submicron CMOS ICs goo
A Keshavarzi, K Roy, C ... - ... **Test** ..., 1997 - utdallas.classes.googlepages.com
... This paper reports transistor intrinsic leakage reduction as functions of bias **point**, temperature, source-well ... It is used in failure **analysis** to assist defect **location** and also by reliability ... IDDQ as a general **test pattern** measurement is primarily used to detect circuit defects, design ...
Cited by 152 - Related articles - View as HTML - BL Direct - All 6 versions

RIFLE: A general purpose pin-level **fault** injector psu.
H Madeira, M Rela, F Moreira, JG ... - Dependable Computing: ..., 1994 - books.google.com
... up to 32 bits) Activation Address Count (8 hits) Delay (16 hits) Activation **Pattern** (up to ... As mentioned above, the Trace Memory records all **points** in which a **fault** can be injected ... three purposes: 1) eiror feedback, 2) detection of discarded errors, and 3) detailed behavior **analysis**. ...
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SJ Lee, JH Lim, WJ Lee, KH Lim, SW ... - Journal of computer ..., 1997 - journals.lww.com
... Hepatic angiography was performed for **evaluation** of the vascularity of the mass and **...** Postbiopsy helical dynamic CT was done for **detection** of an additional mass after **...** hepatocellular carcinoma results in a subsegmental wedge-shaped hyperperfusion **abnormality** adjacent to **...**
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Optimal QRS **detector**
NV Thakor, JG Webster, WJ Tompkins - Medical and Biological ..., 1983 - Springer
... Differences between normal and **abnormal** QRS morphologies may cause amplitude variations as large as 70% as **...** 4 **Evaluation** All **detector** designs represent some form of compromise **...** FPs provide such information, we plot TPs and FPs for various **detection** criteria (HANCOCK **...**
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Performance-based **evaluation** of graphic displays for nuclear power plant control ...
RJ Petersen, WW Banks, DI Gertman - Proceedings of the 1982 ..., 1982 - portal.acm.org
... This portion of the **evaluation** consists of four separate experimental tasks: **Detection**-- addressing the alerting function; Spatial Localization--addressing the localization portion of problem **...** Now, instead of merely reporting the **detection** of an **abnormal** parameter, the subject **...**
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[PDF] Mechanical failure **detection** of circuit breakers
ML Lai, SY Park, CC Lin, H Naidu, A ... - ... on Power Delivery, 1988 - kalman.kaist.ac.kr
... 4, October 1988 MECHA)ICAL FAILURE **DETECTION** OF CIRCUIT BREAKERS ML Lai SYPark **...** SE Wright Electric Power Research Institute Palo Alto, California 94303 Abstract - The **evaluation** of the **...** of a circuit breaker, ie, whether the unit is in normal or **abnormal** condition, has **...**
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[CITATION] ... Operator Support System for Boiling-Water Reactor **Abnormal** ...
Y Higashikawa, FMH Works, L Hitachi ... - Proceedings of the ..., 1986 - Amer Nuclear Society
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Design, implementation and **evaluation** of amicrocomputer-based portable ...
NV Thakor, JG Webster, WJ Tompkins - Medical and Biological ..., 1984 - Springer
... (d) Much research and **evaluation**, on a **...** by separating the clusters (c) statistical methods--these use correlation analysis and template matching to identify **abnormal** patterns. Our arrhythmia-**detection** algorithms are decision-logic types, based only on the R-to-R interval and **...**
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Developing a knowledge base for noise diagnostic expert system of reactor ...
K Dach, V Krett, J Vav rín, L Pecinka - Progress in Nuclear Energy, 1988 - Elsevier
... be measu- red directly, but by means of signal analysis the **abnormal** amplitudes of **...** diagnostic system are: - monitoring of equipment state in all operation situations, - **detection** of deviations **...** internal behaviour 211 In case of no change in descriptor during **evaluation** of **current ...**

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[PDF] Sonja Ebron Student Member IEEE
IFONPD FEEDERS - IEEE Transactions on Power Delivery, 1990 - dte.us.es
... form in order for the network to distinguish between normal and **abnormal** feeder operation. ... or random times; thus, the program is ideal for fault simulation and **transient** analysis. Since a successful HIF **detection** scheme must be able to distinguish between normal **current** ...
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[PDF] Neural-network-based adaptive matched filtering for QRS **detection**
Q Xue, YH Hu, WJ Tompkins... - IEEE Transactions on ..., 1992 - minds.wisconsin.edu
... may be examined for evidence of ischemia, or the waveform may be classified as normal or **abnormal**. ... el ni.: NEURAL-NHTWORK-BASED ADAPTIVE MATCHED FILTERING FOR QRS **DETECTION** TABLE I Results of **Evaluation** of Three QRS **Detection** Algorithms Using ...
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[CITATION] DATA BANK FOR ARRHYTHMIA **DETECTION** PROGRAMS
F HAGEMEIJER, B GLASER, C ... - Trends in computer- ..., 1977 - North Holland
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[CITATION] Component Monitoring Systems
JS Fuoto, RL Turner - ... for Nuclear Power Plant Operation and ..., 1986 - Amer Nuclear Society
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Selective-set-invalidation (SSI) for soft-error-resilient cache architecture
SH Hwang, GS Choi - ACM SIGARCH Computer Architecture News, 1999 - portal.acm.org
... of fault-injection location is very crucial for the fault effect **evaluation** of target ... Fault **Detection**: During the analysis of the design, system-level fault manifestations are observed. ... In radiation experiment, the errors that cause **abnormal** program flow, program hang, and system er ...
Related articles - BL Direct

[PDF] A comparison of the noise sensitivity of nine QRS **detection** algorithms
GM Friesen, TC Jannett, MA Jadallah, ... - IEEE Transactions ..., 1990 - docentes.unal.edu.co
... for a given measurement situation and, once set, will not change during a **detector evaluation**. ... 1(c), the signals resulting from muscle contraction can be assumed to be **transient** bursts of ... Derivative 1) FS1: This algorithm is a simplification of the QRS **detection** scheme presented ...
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... learning. Part II: Rule learning control of a pipeline under normal and **abnormal** ...
DE Goldberg - Engineering with Computers, 1987 - Springer
... heuristic is capable of learning how to operate a pipefine under normal and **abnormal** conditions alike. ... This re- quires that we leave our **current** best rules alone and try to form better ... a simplified model of the pipeline dy- namics as compared to the **transient** optimization study of ...
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[PDF] Automated digital fault recording analysis on the Eskom transmission system
E Stokes-Waller - Southern African Conference on Power System ..., 1998 - asys.co.za
... network static impedance characteristics have proven to be adequate for protection performance analysis and **evaluation** [1]. ... of balanced initial fault recording conditions (eg phase voltage and **current** magnitudes); • No **abnormal** initial fault ... Alternative **detection** methods ...
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[CITATION] STANDARD DEVIATION OF SAMPLE
PTS VALUE, LWN RANGE - Electric and magnetic activity of the central ..., 1988 - AGARD

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H Kanai, H Hasegawa, N Chubachi, Y … - IEEE Transactions …, 1997 - ecei.tohoku.ac.jp
... Fig. 1. An illustration explaining the process of the **evaluation** of the local change in thickness during myocardial contraction/relaxation based on noninvasive **detection** of velocity signals {v(xi; t)} and the instantaneous positions {xi(t)} of multiple N points {i} in the heart wall. **...**
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[BOOK] Reliable computer systems: design and **evaluation**
DP Siewiorek, RS Swarz - 1998 - books.google.com
... Models for Permanent Faults: The MIL-HDBK-217 Model 57 Distribution Models for Intermittent and **Transient** Faults 65 **...** 5, **Evaluation** Criteria Ch. **...** A, Peterson and Weldon [1972] for coding theory; Sellers, Hsiao, and Bearnson [1968b] for error-**detection** techniques Proceedings **...**
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Context related artefact **detection** in prolonged EEG recordings
M van de Velde, IR Ghosh, PJM Cluitmans - Computer methods and …, 1999 - Elsevier
... Visual **evaluation** is usually performed on relatively long segments of 10–60 s where artefacts are **...** and normality of the error term will most likely not be met during **abnormal** and artefact **...** Therefore, using coefficients or errors alone is not enough for **detection** of changes in the **...**
Cited by 11 - Related articles - All 6 versions

[PDF] MECH&ICAL FAILURE **DETECTION** OF CIRCUIT BREAKERS
V Demjanenko, LK Benenson - IEEE Transactions on …, 1988 - metalab.uniten.edu.my
1124 IEEE Transactions on Power Delivery, Vol. 3, No. 4, October 1988 MECH&ICAL FAILURE **DETECTION** OF CIRCUIT BREAKERS **...** Abstract - The **evaluation** of the mechanical condition of acircuit breaker, Le, whether theunitisin normal or **abnormal** condition, has **...**
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[PDF] **Transient analysis** of cage induction machines under stator, rotor bar and ...
HA Toliyat, TA Lipo - IEEE Transactions on Energy Conversion, 1995 - ece.wisc.edu
... This is because of the necessity of accurate **determination** of the additional derating required **...** rotor has substantially grown to involve several broken bars, making the **detection** of one **...** In this paper a comprehensive **analysis** of multiphase cage induction machines under stator or **...**
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Condition monitoring of machinery using motor **current** signature **analysis**
RC Kryter, HD Haynes - Conference: 7. power plant dynamics, control and ..., 1989 - osti.gov
... spectral peaks and other features commonly encountered in traditional machinery vibration **analysis**, such as **...** 3.2 **DETECTION** OF MOV ABNORMALITIES **...** torque switch settings and/or varying switch trip points valve stem taper stem/stem nut thread wear **abnormal** line voltage **...**
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Transient simulation and **analysis** of a three-phase five-limbstep-up transformer ...
CM Arturi - IEEE Transactions on Power Delivery, 1991 - ieeexplore.ieee.org
... Transient simulation and **analysis** of a three-phase five-limbstep-up transformer following **...** Abstract Theoretical and experimental analyses are presented of the electromagnetic **transient** following the **...** phase five-limb step-up transformer; this means an **abnormal** condition where **...**
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[CITATION] **Abnormal** Trend **Detection** of Sequence-Disordered Data Using EWMA ...
JM Fan, RS Guo, SC Chang, JH ... - 1996 IEEE/ ..., 1996 - Institute of Electrical & Electronics ...
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CJ Melhorn, MF McGranaghan - IEEE Transactions on Industry ..., 1995 - Citeseer
... Analysis tools for processing measurement data will be described **...** Disturbances are measured by triggering on an **abnormality** in the voltage or the **current ...** proposed in the Guide for Applying Harmonic Limits on the Power System (Draft 2)[2] for preliminary **evaluation** of harmonic **...**
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Model-based validation of a DOx sensor
DW Clarke, PMA Fraher - Control Engineering Practice, 1996 - Elsevier
... The uncertainty bounds are computed automat ically using the **analysis** described above: note that **...** this particular sensor there is the additional bonus of the **determination** of a **...** of a dissolved oxygen sensor leads to modelbased validation, with: fault **detection**." **determination** via a **...**
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[PDF] **Analysis** of switched reluctance motor drive under fault conditions
VK Sharma, SS Murthy, B Singh - CONFERENCE RECORD-IEEE ..., 1998 - eprint.iitd.ac.in
... The work mainly concentrated on fault **detection**, isolation and management. **...** The above **analysis** of excitation pattern gives the modeling strategy to be adopted for the voltage **...** The comparison of speed reversal response during normal 4-phase excitation and **abnormal** 3-phase **...**

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Abnormal transconductance and **transient** effects in partially depleted SOI ...
Y Zhang, DK Schroder, H Shin, S Hong, T ... - Solid State ..., 1999 - Elsevier
... 5. Conclusion. **Abnormal** transconductance due to **transient** effects is observed in partially depleted SOI MOSFETs. The transconductance dip is related to the change of the hole and electron densities during the turn-on **transient**, leading to a change of the drain **current**. **...**
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Representation of pump characteristics for **transient analysis**
CS Martin - Performance characteristics of hydraulic turbines and ..., 1983 - csa.com
... This paper reviews the **current** state of knowledge regarding the steady-flow characteristics of **...** for steady flow and (2) the importance of the assumption of similarity for **transient analysis**. **...** four-quadrant pump data is presented along with a tabulation of **abnormal** characteristics of **...**
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[BOOK] Computer-aided **analysis** of power electronic systems
V Rajagopalan - 1987 - books.google.com
... steady state without having to compute the entire **transient** state, a topic of **current** importance. **...** program would help the design and develop- ment engineer to carry out the **transient analysis** of the performance of the con- verter under normal and **abnormal** conditions, thereby **...**
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D Haibo, S Liping - ELECTROTECHNICAL JOURNAL, 1999 - en.cnki.com.cn
... 2. Xuzhou Power Supply Company, Xuzhou 221005, China);Digital Simulation Study and **Analysis** on **Abnormal** Operation of **...** China);APPLICATION OF OPTICAL **CURRENT** TRANSDUCER TO SINGLE-PHASE GROUNDING FAULT **CURRENT DETECTION** IN POWER **...**
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Transient performance of the saturated induction machine
A Câmpeanu - Electrical Engineering (Archiv fur Elektrotechnik), 1995 - Springer
... For an **abnormal** high saturation level (U= 300 V) the differences between the curves M(t **...** The decomposition on orthogonal axes is necessary for computer **determination** and not for physical reasons **...** considered d, q-frame the equations assume specific forms for the **analysis** of a **...**
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ANALYSIS AND CONTROL OF TORQUE PULSATIONS IN **CURRENT** FED INDUCTION MOTOR DRIVES TA **...** continuously at such a resonance condition could result in **abnormal** wearing of **...** of stator **current** and rotor flux linkage the equations which define **transient** behavior of **...**
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ML Lai, SY Park, CC Lin, H Naidu, A ... - ... on Power Delivery, 1988 - kalman.kaist.ac.kr
... and SE Wright Electric Power Research Institute Palo Alto, California 94303 Abstract - The **evaluation** of the **...** structure and interrupting medium are incorporated so as to enable the **determination** of the **...** of subtle changes, which may not be dis- cerned through MS **analysis** of the **...**
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Evaluation of the dielectric breakdown of reoxidized nitrided oxide (ONO) in flash ...
CL Cha, EF Chor, H Gong, AQ Zhang, L Chan, ... - Microelectronics ..., 1998 - Elsevier
... Consequently, device functionality and performance **evaluation** measurements conducted on test structures are realistic **...** flat portion of the V–tplot that follows the initial voltage **transient** is sloping **...** surmise only a few probable causes to discuss for the **abnormal** breakdown of **...**
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Developing a knowledge base for noise diagnostic expert system of reactor ...
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... of reactor internal behaviour 211 In case of no change in descriptor during **evaluation** of **current ...** In case of **determination** of some deviation, the expert system finds out from the set **...** be understood as interim but illustrated approximation of transformation of noise **analysis** re - sults **...**
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... testing of solenoid-operated valves using **transient current** signature **analysis**
ED Blakeman, RC Kryter - 1997 - osti.gov
... A methodology has been developed for in situ diagnostic testing of dc-actuated solenoid-operated valves (SOVs) by **analysis** of the characteristics of the **transient current** waveform accompanying valve actuation. This waveform, which is used to identify **abnormal** operation, is **...**
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